

SHEET 1 OF 1

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY. DOCKET NO. 2933SE-11-CIP-2	SERIAL NO. 09/037,674
	APPLICANT MIZUHARA et al.	
	FILING DATE March 9, 1998	GROUP ART 2814

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
ON	AA	5,855,962	1/5/99	COTE et al.	B05D3	02	
ON	AB	5,817,582	10/6/98	MANIAR	H01L 21	469	
ON	AC	5,569,618	10/29/96	MATSUBARA	H01L 21	8242	
ON	AD	5,186,745	2/16/93	MANIAR	C09D 183	06	

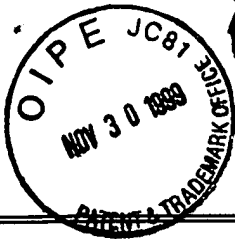
FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
							YES	NO

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

--	--	--

EXAMINER ON	DATE CONSIDERED 4/4/00
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

SHEET 1 OF 1

FORM PTO-1449 SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 2933SE-11-CIP-2	SERIAL NO. 09/037,674
		APPLICANT MIZUHARA et al.	
		FILING DATE March 9, 1998	GROUP ART 2814

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
ON	AA	4,962,052	10/9/90	ASAYAMA et al.	437	31	
ON	AB	5,930,624	7/27/99	MURATA et al.	438	253	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
							YES	NO
							X	

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

EXAMINER ON	DATE CONSIDERED 4/4/00
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

SHEET 1 OF 2

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY. DOCKET NO. 2933SE-11-CIP-2	SERIAL NO. 09/037,674
	APPLICANT MIZUHARA et al.	
	FILING DATE March 9, 1998	GROUP ART 2814

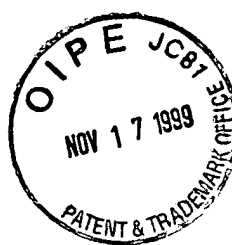
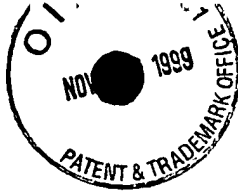
U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
							YES	NO
ON	AA	62-60242	3/16/87	Japan	H01L21	88		X
ON	AB	1-199456	8/10/89	Japan	H01L21	90		X
ON	AC	2-7451	1/11/90	Japan	H01L21	90		X
ON	AD	2-26055	1/29/90	Japan	H01L21	90		X
ON	AE	2-253643	10/12/90	Japan	H01L21	90		X
ON	AF	3-101130	4/25/91	Japan	H01L21	314		X
ON	AG	4-234149	8/21/92	Japan	H01L21	90		X
ON	AH	4-317358	11/9/92	Japan	H01L21	90		X
ON	AI	5-74963	3/26/93	Japan	H01L21	90		X
ON	AJ	5-198523	8/6/93	Japan	H01L21	265		X
ON	AK	6-275229	9/30/94	Japan	H01J37	317		X

EXAMINER <i>ON</i>	DATE CONSIDERED <i>4/4/00</i>
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

SHEET 2 OF 2

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY. DOCKET NO. 2933SE-11-CIP-2	SERIAL NO. 09/037,674
	APPLICANT MIZUHARA et al.	
	FILING DATE March 9, 1998	GROUP ART 2814

ON	AL	6-349950	12/22/94	Japan	H01L21	90		X
ON	AM	7-99195	4/11/95	Japan	H01L21	3205		X
ON	AN	8-17770	1/19/96	Japan	H01L21	304		X
ON	AO	8-64561	3/8/96	Japan	H01L21	304		X

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

RECEIVED

NOV 19 1999

TECHNOLOGY CENTER 2800

EXAMINER ON	DATE CONSIDERED 4/4/00
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 2933SE-11-CIP-2	SERIAL NO. 09/037,674
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		APPLICANT MIZUHARA et al.	
		FILING DATE March 9, 1998	GROUP ART 2814



U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
<i>on</i>	AA	5,084,412	1/92	Nakasaki	257	762	
<i>on</i>	AB	5,479,054	12/95	Tottori	257	760	
<i>on</i>	AC	5,753,975	5/98	Matsuno	257	760	

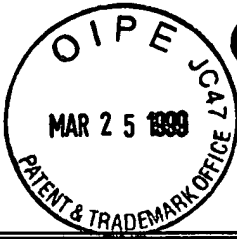
FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
							YES	NO
	AD							
	AE							

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

	AF		<div style="text-align: right;"> RECEIVED JUL 02 1999 TECHNOLOGY CENTER 2800 </div>
	AG		
	AH		

EXAMINER <i>on</i>	DATE CONSIDERED <i>4/4/00</i>
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

SHEET 1 OF 1

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY. DOCKET NO. 2933SE-11-CIP-2	SERIAL NO. 09/037,674
	APPLICANT MIZUHARA et al.	
	FILING DATE March 9, 1998	GROUP ART 2814

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
	AA						
	AB						
	AC						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
							YES	NO
<i>On</i>	AD	4-307934 (A)	10/30/92	JAPAN				X
	AE							

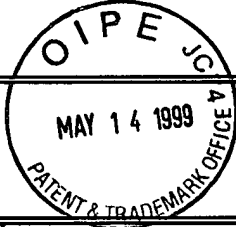
OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

	AF	
	AG	
	AH	

RECEIVED
MAR 31 AM 7:27
TECHNOLOGY CENTER 2800

EXAMINER <i>On</i>	DATE CONSIDERED 4/4/00
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 2933SE-11-CIP-2	SERIAL NO. 09/037,674
SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		APPLICANT MIZUHARA et al.	
		FILING DATE March 9, 1998	GROUP ART 2814



U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
ON	AA	5,153,680	10/06/92	NAITO ET AL.	357	8	
ON	AB	3,747,203	07/24/73	SHANNON	29	578	
ON	AC	5,166,768	11/24/92	ITO	257	523	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
							YES	NO
ON	AD	4,218,495 A1	12/10/92	GERMANY			X	
	AE							

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

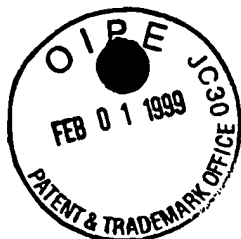
	AF	
	AG	
	AH	

RECEIVED

MAY 19 1999

TECHNOLOGY CENTER 2800

EXAMINER ON	DATE CONSIDERED 4/4/00
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	



RECEIVED

FEB 04 1999

GROUP 2100 SHEET 1 OF 2

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
2933SE-11-CIP-2SERIAL NO.
09/037,674INFORMATION DISCLOSURE STATEMENT
(Use several sheets if necessary)

APPLICANT

MIZUHARA et al.

FILING DATE
March 9, 1998GROUP ART
2814

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
ON	AA	4,676,867	06/30/87	Elkins et al.	156	643	
ON	AB	4,775,550	10/04/88	Chu et al.	427	38	
ON	AC	4,885,262	12/05/89	Ting et al.	437	231	
ON	AD	4,983,546	01/08/91	Hyun et al.	437	231	
ON	AE	5,003,062	03/26/91	Yen	437	231	
ON	AF	5,106,787	04/21/92	Yen	437	231	
ON	AG	5,192,697	03/09/93	Leong	437	37	
ON	AH	5,352,630	10/04/94	Kim et al.	437	195	
ON	AI	5,429,990	07/04/95	Liu et al.	437	190	
ON	AJ	5,496,776	03/05/96	Chien et al.	437	231	
ON	AK	5,549,786	08/27/96	Jones et al.	156	662.1	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
							YES	NO
ON	AL	1-307247	12/12/89	Japan				X
ON	AM	5-226334	3/9/93	Japan				X
ON	AN	2-101532	8/13/90	Japan				X
ON	AO	2-235358	9/18/90	Japan				X

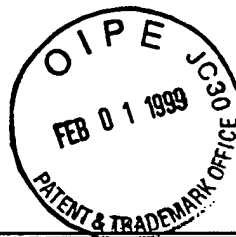
EXAMINER

ON

DATE CONSIDERED

7/4/00

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



RECEIVED

FEB 04 1999

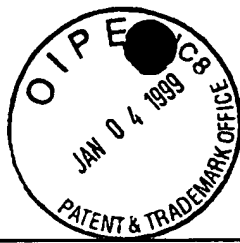
GROUP 2100 OF 2
SHEET

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY. DOCKET NO. 2933SE-11-CIP-2	SERIAL NO. 09/037,674
	APPLICANT MIZUHARA et al.	
	FILING DATE March 9, 1998	GROUP ART 2814

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

ON	AP	Wang et al., "A Study of Plasma Treatments on Siloxane SOB," IEEE VMIC Conference, June 7-8, 1994, pp. 101-107.
ON	AQ	Chiang et al., "Defects Study on Spin on Glass Planarization Technology, IEEE VMIC Conference, June 15-16, 1987, pp. 404-412.
ON	AR	Lai-Juh Chen, et al., "Fluorine-Implanted Treatment (FIT) SOG for the Non-Etchback Intermetal Dielectric," IEEE VMIC Conference, June 7-8, 1994, pp. 81-86.
ON	AS	Moriya et al., "Modification Effects in Ion-Implanted SiO ₂ Spin-on-Glass," <u>J. Electrochem. Soc.</u> , Vol. 140, No. 5, May 1993, pp. 1442-1450.
ON	AT	Matsuura et al., "An Advanced Interlayer Dielectric System with Partially Converted Organic SOG Using Plasma Treatment," IEEE VMIC Conference, June 8-9, 1993, pp. 113-115.
ON	AU	Ishida et al., "Mechanism for AlSiCu Alloy Corrosion," <u>Jpn. J. Appl. Phys.</u> , Vol. 31 (1992), pp. 2045-2048.
ON	AV	Doki et al., "Moisture-Blocking Mechanism of ECR-Plasma," IEEE VMIC Conference, June 7-8, 1994, pp. 235-139.
ON	AW	Shimokawa et al., "Suppression of MOSFET hot carrier degradation by P-SiO underlayer," <u>The Institute of Electronics, Information and Communication Engineers</u> , Technical Report of IEICE, SDM92-133 (1992-12), pp. 89-94.
ON	AX	Murase et al., "Dielectric Constant of Silicon Dioxide Deposited by Atmospheric-Pressure Chemical Vapor Deposition Using Tetraethylorthosilicate and Ozone," <u>Jpn. J. Appl. Phys.</u> , Vol. 33 (1994), pp. 1385-1389.

EXAMINER ON	DATE CONSIDERED 4/4/00
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

SHEET 1 OF 1

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY. DOCKET NO. 2933SE-11-CIP-2	SERIAL NO. 09/037,674
	APPLICANT MIZUHARA et al.	
	FILING DATE March 9, 1998	GROUP ART 2814

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
ON	AA	5,153,680	10/06/92	NAITO ET AL.	357	8	
ON	AB	3,747,203	07/24/73	SHANNON	29	578	
ON	AC	5,166,768	11/24/92	ITO	257	523	

RECEIVED

JAN 11 1999

FOREIGN PATENT DOCUMENTS

GROUP 2100

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
							YES	NO
ON	AD	4,218,495 A1	12/10/92	GERMANY			X	
	AE							

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

	AF	
	AG	
	AH	

EXAMINER ON	DATE CONSIDERED 4/4/00
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	